

Release notes for ENDF/B Development e-090_Th_000
evaluation

ENDF
B-VII.dev

October 13, 2016

- fudge-4.0 Warnings:

1. Mislabelled emitted particle
Reading ENDF file: ../e-090_Th_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
2. FIXME: Generic fudge unimplemented message
reaction label 1: e- + Th + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data
3. FIXME: Generic fudge unimplemented message
reaction label 2: e- + Th [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree
reaction label 0: e- + Th [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
2. Calculated and tabulated thresholds don't agree
reaction label 1: e- + Th + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
3. Calculated and tabulated thresholds don't agree
reaction label 2: e- + Th [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
4. Calculated and tabulated thresholds don't agree
reaction label 3: e- + e- + Th1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 110110. eV!
5. Calculated and tabulated thresholds don't agree
reaction label 4: e- + e- + Th2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20478. eV!
6. Calculated and tabulated thresholds don't agree
reaction label 5: e- + e- + Th2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19780. eV!
7. Calculated and tabulated thresholds don't agree
reaction label 6: e- + e- + Th2p3/2 / Cross section: (Error # 0): Threshold mismatch

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16315. eV!
8. Calculated and tabulated thresholds don't agree
reaction label 7: $e^- + e^- + Th3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5157.9 eV!

 9. Calculated and tabulated thresholds don't agree
reaction label 8: $e^- + e^- + Th3p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4831.6 eV!

 10. Calculated and tabulated thresholds don't agree
reaction label 9: $e^- + e^- + Th3p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4036.2 eV!

 11. Calculated and tabulated thresholds don't agree
reaction label 10: $e^- + e^- + Th3d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3502.4 eV!

 12. Calculated and tabulated thresholds don't agree
reaction label 11: $e^- + e^- + Th3d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3338.6 eV!

 13. Calculated and tabulated thresholds don't agree
reaction label 12: $e^- + e^- + Th4s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1310.6 eV!

 14. Calculated and tabulated thresholds don't agree
reaction label 13: $e^- + e^- + Th4p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1162.3 eV!

 15. Calculated and tabulated thresholds don't agree
reaction label 14: $e^- + e^- + Th4p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 956.16 eV!

 16. Calculated and tabulated thresholds don't agree
reaction label 15: $e^- + e^- + Th4d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 714.8099999999999 eV!

 17. Calculated and tabulated thresholds don't agree
reaction label 16: $e^- + e^- + Th4d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 676.64 eV!

 18. Calculated and tabulated thresholds don't agree
reaction label 17: $e^- + e^- + Th4f5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 358.55 eV!

19. Calculated and tabulated thresholds don't agree
reaction label 18: $e^- + e^- + Th4f7/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 348.69 eV!
20. Calculated and tabulated thresholds don't agree
reaction label 19: $e^- + e^- + Th5s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 294.76 eV!
21. Calculated and tabulated thresholds don't agree
reaction label 20: $e^- + e^- + Th5p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 237.43 eV!
22. Calculated and tabulated thresholds don't agree
reaction label 21: $e^- + e^- + Th5p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 189.41 eV!
23. Calculated and tabulated thresholds don't agree
reaction label 22: $e^- + e^- + Th5d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 104.23 eV!
24. Calculated and tabulated thresholds don't agree
reaction label 23: $e^- + e^- + Th5d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 97.11 eV!
25. Calculated and tabulated thresholds don't agree
reaction label 24: $e^- + e^- + Th6s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.55 eV!
26. Calculated and tabulated thresholds don't agree
reaction label 25: $e^- + e^- + Th6p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.52 eV!
27. Calculated and tabulated thresholds don't agree
reaction label 26: $e^- + e^- + Th6p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.01 eV!
28. Calculated and tabulated thresholds don't agree
reaction label 27: $e^- + e^- + Th6d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.62 eV!
29. Calculated and tabulated thresholds don't agree
reaction label 28: $e^- + e^- + Th6d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.98 eV!

30. Calculated and tabulated thresholds don't agree
reaction label 29: e- + e- + Th7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.97 eV!

• `xsectplotter` Warnings:

1. Mislabeled emitted particle
Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
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